

Replacement Sheet

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<pre>INSERT INTO RilDF(token, idf) SELECT T.token, LOG(S.size)-LOG(COUNT(UNIQUE(*)))</pre>	<pre>INSERT INTO RiTF(tid, token, tf) SELECT T.tid, T.token, COUNT(*)</pre>
FROM RiTokens T, RiSize S	FROM RiTokens T
GROUP BY T.token, S.size	GROUP BY T.tid, T.token
(a) Relation with token idf counts	(b) Relation with token tf counts
INSERT INTO RiLength(tid, len)	INSERT INTO RiWeights(tid, token, weight)
<pre>SELECT T.tid, SQRT(SUM(I.idf*I.idf*T.tf*T.tf))</pre>	SELECT T.tid, T.token, I.idf*T.tf/L.len
FROM RIIDF I, RITF T	FROM RIIDF I, RITF T, RiLength L
WHERE I.token = $T.token$	WHERE I.token = T.token AND T.tid = L.tid
GROUP BY T.tid	
(c) Relation with weight-vector lengths	(d) Final relation with normalized tuple
	weight vectors
INSERT INTO RiSum(token, total)	INSERT INTO RiSize (size)
SELECT R.token, SUM(R.weight)	SELECT COUNT(*)
FROM Riweights R	FROM Ri
GROUP BY R.token	
(e) Relation with total token weights	(f) Dummy elation used to create RiIDF

FIG. 1

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FIG. 2

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SUM(rlw.weight*r2w.weight>

SELECT rw.tid, rw.token, rw.weight/rs.total AS P FROM RiWeights rw, RiSum rs WHERE rw.token = rs.token

FIG. 3

INSERT INTO RiSample(tid,token,c)
SELECT rw.tid, rw.token, ROUND(S * rw.weight/rs.total, 0) AS
FROM RiWeights rw, RiSum rs
WHERE rw.token = rs.token

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FIG. 4

rlw.token = r2s.token AND r1w.token = r2sum.token AND r1w.tid = r1v.tid Rlweights rlw, R2sample r2s, R2sum r2sum, R1V rlv rlw.tid AS tidi, r2s.tid AS tid2 SELECT WHERE FROM

<u>- G. 5</u>

rlw.tid AS tid1, r2w.tid AS tid2

SELECT

R1Weights r1w,R2Weights r2w

rlw.token = r2w.token

rlw.tid, r2w.tid

GROUP BY HAVING

FROM WHERE

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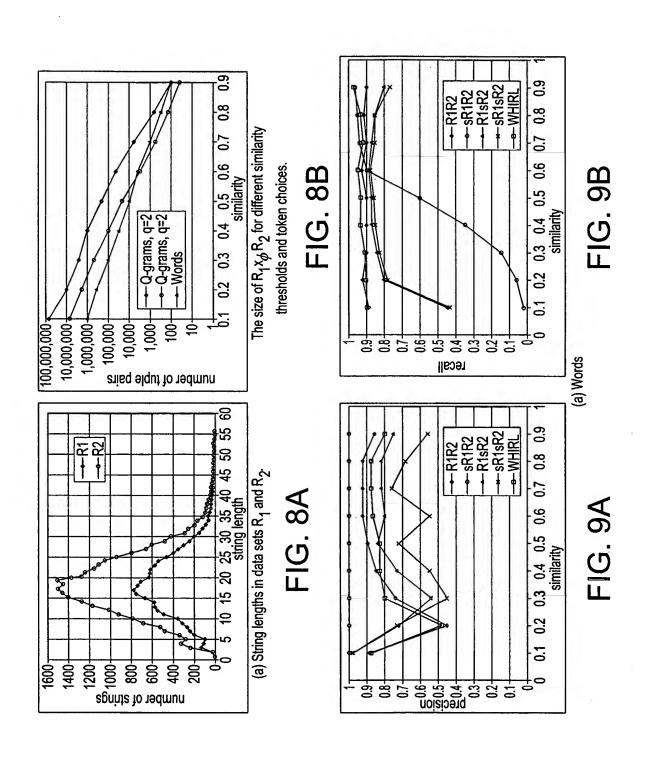
rlw.token = r2s.token AND rlw.token = r2sum.token AND rlw.tid = rlv.tidr2w.token = r1s.token AND r2w.token = r1sum.token AND r2w.tid = r2v.tid rlw.tid AS tid1, r2s.tid AS tid2, SUM(r1w.weight * r2sum.total) AS Ci rls.tid AS tid1, r2w.tid AS tid2, SUM(r2w.weight * r1sum.total) AS Ci Rlweights rlw, R2sample r2s, R2sum r2sum R2weights r2w, R1sample r1s, R1sum r1sum rlw.tid, r2s.tid GROUP BY r2w.tid, r1s.tid ≥ S * Φ' GROUP BY tid1, tid2 SELECT tid1, tid2 HAVING AVG(Ci) GROUP BY UNION ALL SELECT WHERE WHERE FROM FROM

FIG. 6

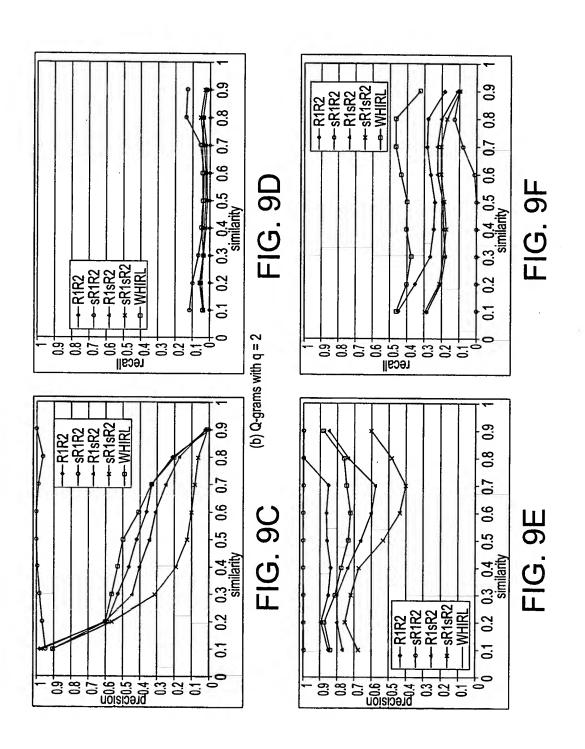
rls.token = rlsum.token AND R2Sample.token = r2sum.token AND rls.token = r2s.token R1Sample r1s, R2Sample r2s, R1Sum r1sum, R2Sum r2sum -Ф رى * SUM(r1sum.total * r2sum.total) ≥ S * rls.tid AS tid1, r2s.tid AS tid2 rls.tid, r2s.tid GROUP BY SELECT HAVING WHERE

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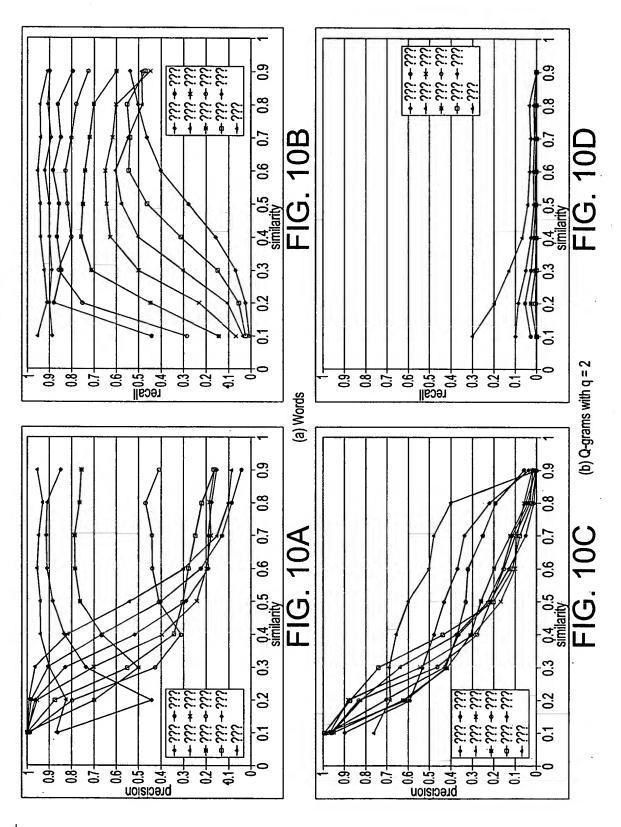
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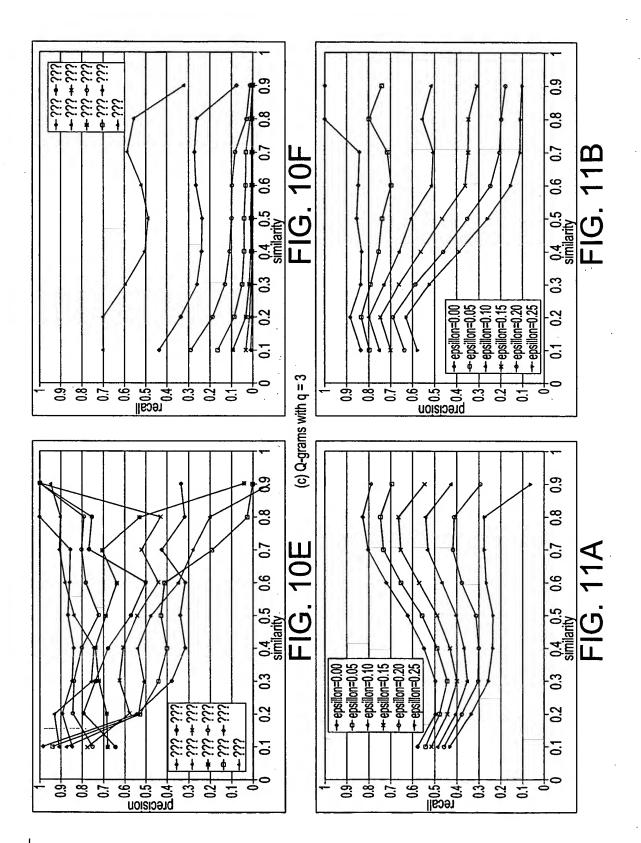
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